REGINA | City of Regina

2013 Drinking Water Quality Data

Water quality data presented below has been compiled from the results of laboratory testing. Water samples were taken from the Buffalo Pound Water Treatment Plant and comprehensive water quality analyses for all parameters were conducted in the plant laboratory.

Water quality test results for bacteriological, chlorine residual and turbidity were given in the 2013 Drinking Water Quality and Compliance Report.

Parameter	Testing Result Annual Average	Saskatchewan Environment Water Quality Objective
Sodium (Na)	64	300
Sulphate (SO4)	214	500
Total Dissolved Solids (TDS)	443	1500
Manganese (Mn)	<0.0005 DL	0.05
Nitrate (NO3)	0.07	45
Potassium (K)	6.5	No Standard
Hardness	208	800
Iron (Fe)	<0.001 DL	0.30
Magnesium (Mg)	24	200
Calcium (Ca)	44	No Standard
Chloride (Cl)	23.3	250
Fluoride (F)	0.10	1.50
Alkalinity (CaCO3)	116	500

Notes:
1. Values are given in milligrams per litre (mg/l) which is equivalent to parts per million (ppm)
2. ** No flouride was added to Regina water. Flouride measured is naturally occuring.
3. "<" means "less than"
4. "DL" means detection limit

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2013 Drinking Water Quality and Compliance Report
Annual Notice to Customers

Saskatchewan Water Security Agency requires that at least once each year waterworks owners provide notification to consumers of the quality of water produced and supplied as well as information on the performance of the water works in submitting samples as required.

The following is a summary of the City of Regina water quality and sample submission compliance records for January 1, 2013 - December 31, 2013. This report was completed on March 18, 2014.

Please refer to Saskatchewan Ministry of Environment's *Municipal Drinking Water Quality Monitoring Guidelines, November 2002, EPB 202* for more information on minimum sample submission requirements and the meaning of each type of sample. Permit requirements for a specific waterworks may require more sampling than outlined in the department's monitoring guidelines.

If consumers need more information on the nature and significance of specific water tests, for example, "what is the significance of selenium," please visit http://www.hc-sc.gc.ca/ewh-semt/pubs/water-eau/index_e.html.

Water Quality Standards

I. Bacteriological Quality

Parameter	Limit	Regular Samples Required	Total Samples Tested	No. of Samples Positive of Bacteria
Total Coliform and Background Bacteria	Zero Organisms/100ml Less than 200/100ml	780	780	0

II. Water Disinfection - Chlorine Residual in Distribution System for Test Results Submitted with Bacteriological Samples

Parameter	Minimum Limit (mg/l)	Test Level Range (mg/l)	No. of Tests Required	No. of Tests Performed
Chlorine	0.1 mg/L Free	0.22 - 0.98		

Residual	0.5 mg/l Total	0.38 - 1.14	780	875

III. Turbidity

Parameter	Limit (NTU)	Test Level Range	No. of Tests Not Meeting Requirements	No. of Tests Required	No. of Tests Performed
Turbidity	1.0	0.03 - 0.40	0	780	875

(NTU) Nephelometric Turbidity Unit - a unit of measurement used to indicate the clarity of drinking water

IV. Chemical - Trihalomethanes

Parameter	Limit (mg/l)	Sample Result (Average)	No. of Samples Required	No. of Samples Submitted
Trihalomethanes	0.1	0.07 mg/l	8	8

For more information, call 306-777-7000.